

OCR – GCSE DESIGN & TECHNOLOGY

Year 10

TERM 1 content and skills	TERM 2 content and skills	TERM 3 content and skills	EXTENDED CURRICULUM (trips/visits/after school activities)
<p>Introduction to the Course</p> <p>Core Principles of Design & Technology</p> <p><i>Chapter 1: Identifying Requirements</i> <i>Chapter 2: Learning from existing products and practice</i></p> <p>Design Ventura Project Investigation & analysis Sketching & annotation Teamwork & collaborative designing Modelling & Prototyping CAD-CAM Tinkercad and 3d printing 2dDesignTools, Laser cutter and Vinyl cutter Testing & Review Evaluation Presentation skills</p>	<p>Core Principles of Design & Technology</p> <p><i>Chapter 3: Implications of wider issues</i> <i>Chapter 4: Design thinking and communication</i></p> <p>Design Ventura Project Investigation & analysis Sketching & annotation Teamwork & collaborative designing Modelling & Prototyping CAD-CAM Tinkercad and 3d printing 2dDesignTools, Laser cutter and Vinyl cutter Testing & Review Evaluation Presentation skills</p> <p>Trial NEA Project Explore Context Design Brief and identification of Stakeholders Primary User needs and wants – Requirements Initial Ideas Iterations Materials and Testing Focus Final Idea Presentation</p>	<p>Core Principles of Design & Technology</p> <p><i>Chapter 5: Material considerations</i> <i>Chapter 6: Mechanical devices and electronic systems</i></p> <p>Trial NEA Project Skills Lessons</p> <p>NEA (Non-Exam Assessment)– Launch Introduce Brief Investigate Contexts</p>	<p>Possible visit to or workshops with The Design Museum</p> <p>Design Ventura Competition Entry</p>

	<p>Evaluation</p> <p>Skills Lessons SketchUp 2D Design – Laser Cutting Paper & Card Prototyping</p>		
<p>Assessment: Chapter 1: Identifying Requirements – Mid Term Test Chapter 2: Learning from existing products and practice – End of Term Test Design Ventura Project Internal Assessment</p>	<p>Assessment: Chapter 3: Implications of wider issues – Mid Term Test Chapter 4: Design thinking and communication – End of Term Test Design Ventura Project Internal Assessment Design Ventura Competition Entry Trial NEA Internal Assessment</p>	<p>Assessment: Chapter 5: Material considerations – Mid Term Test Chapter 6: Mechanical devices and electronic systems – End of Term Test Trial NEA Internal Assessment Core Principles of Design & Technology – Year 10 Mock Exam</p>	
Year 11			
<p>Core Principles of Design & Technology</p> <p><i>Chapter 7: New and Emerging Technologies</i></p> <p>In-Depth Principles of Design & Technology</p> <p><i>Chapter 11: Polymers</i></p> <p>NEA (Non-Exam Assessment) Generation of design ideas Further investigation Development of design ideas Modelling & Prototyping Testing, Review & Evaluation</p>	<p>Core Principles of Design & Technology Revision</p> <p>In-Depth Principles of Design & Technology Revision</p> <p>NEA (Non-Exam Assessment) Development of design ideas Prototyping CAD-CAM</p> <p>Final Testing, Review & Evaluation Project PowerPoint presentation</p>	<p>Core Principles of Design & Technology Revision</p> <p>NEA (Non-Exam Assessment) Final Testing, Review & Evaluation Project PowerPoint presentation</p>	

Project PowerPoint presentation			
Assessment: Chapter 7: New and Emerging Technologies – Mid Term Test Core Principles of Design & Technology – Year 11 Interim exam Chapter 11: Polymers – End of Term Test	Assessment: Core Principles of Design & Technology – Year 11 Mock Exam NEA - Assessment	Assessment: Core Principles of Design & Technology Written Exam Paper NEA - Assessment	